To: BudneySL@cdmsmith.com[BudneySL@cdmsmith.com]; Hoppe,

Michael[Hoppe.Michael@epa.gov]; Vaughn, Stephanie[Vaughn.Stephanie@epa.gov]

Cc: Gary.Foster@CH2M.com[Gary.Foster@CH2M.com];

George.Hicks@CH2M.com[George.Hicks@CH2M.com]; John Rolfe[jrolfe@demaximis.com]; Willard Potter[otto@demaximis.com]; Robert Law[rlaw@demaximis.com]; Todd King[TKing@gldd.com]

From: Stan Kaczmarek

Sent: Tue 11/26/2013 9:13:06 PM

Subject: RE: Carbon Analysis of Active Layer

Stephanie,

CH2M HILL determined cap thickness in the hard pan areas south of the No Dredge Zone yesterday morning, 11/25. Results showed at least 6 inches of material in all areas inspected. The locations that were probed should be mapped by sometime on Wednesday, at which point we will submit a summary of those results and accompanying photographs for EPA review.

In the meantime, we will be monitoring storm progress and impacts on Passaic River flows. After the storm is over we can discuss if those flows warrant additional probing of the already placed active layer.

Stan

Stan Kaczmarek, PE de maximis, inc. 186 Center Street, Suite 290 Clinton, NJ 08809 (O) (908) 735-9315 (C) (973) 978-9621

>>> On 11/26/2013 at 12:44 PM, in message

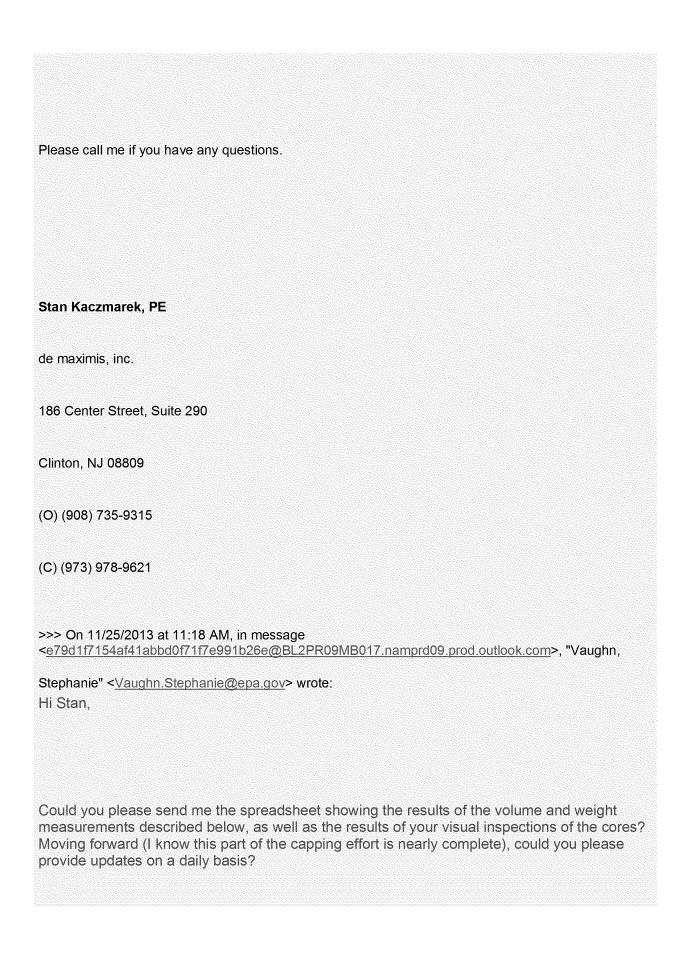
<59f72190617f42ecac8c90616093ea72@BL2PR09MB017.namprd09.prod.outlook.com>,

"Vaughn, Stephanie" < Vaughn. Stephanie@epa.gov > wrote:

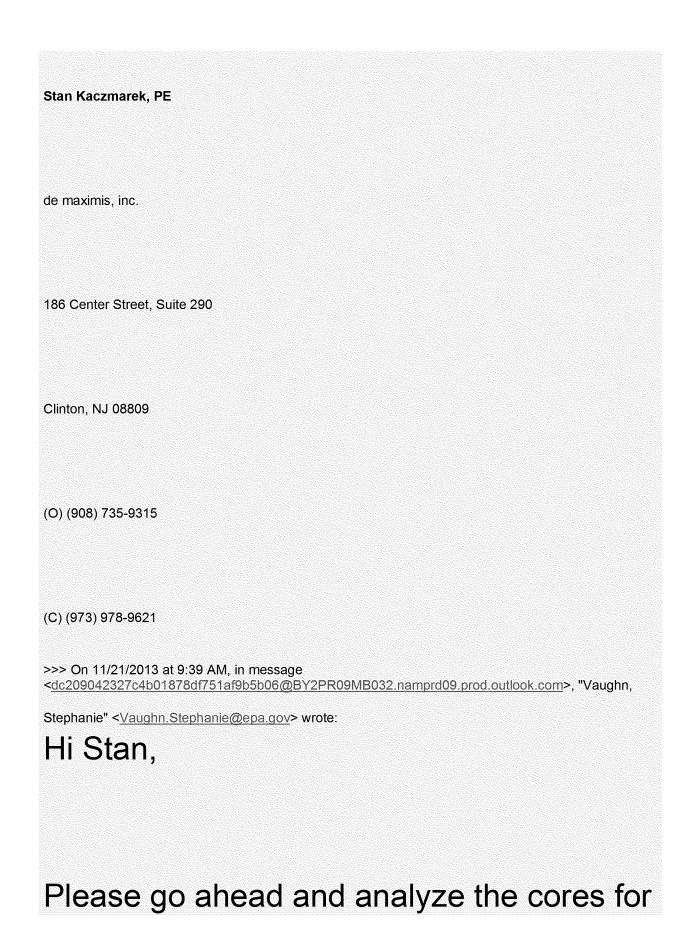
Thanks, Stan. It does not appear that any of these locations are in the hardpan areas that call for a reduced thickness cap. Could you confirm this and/or collect a couple of cores from the hardpan areas?

Also, tomorrow during the call let's discuss the potential need to do some additional core collection after the storm we are expecting – if it ends up being significant, we may want to verify that the thickness of the active layer remains sufficient prior to placement of the geotextile layer.

Stephanie	
From: Stan Kaczmarek [mailto:StanK@demaximis.com] Sent: Monday, November 25, 2013 2:54 PM To: BudneySL@cdmsmith.com; Hoppe, Michael; Vaughn, Stephanie Cc: Gary.Foster@CH2M.com; George.Hicks@CH2M.com; John Rolfe; Will Todd King Subject: RE: Carbon Analysis of Active Layer	lard Potter; Robert Law;
Stephanie,	
A graphic showing the location and results of cores collected for visual insp	ection to date is attached.
Regarding the volume and weight measurements taken by Great Lakes from control, GLDD informs me that the data they collect is handwritten in field not transcribed into a reportable format. When I receive that, I will share it. How while Great Lakes finds the process of using a sieve to separate and then we to ensure they are getting adequate AquaGate in the sand mixture, it is the of AquaGate applied and the daily estimate of sand volume applied over a sedetermines the final acceptability of the active layer composition. That data today.	otes, but it will be vever, veigh the components useful daily volume measurement specific square footage that
Regarding schedule, Great Lakes operated 1 hour today (Monday) until the up. Additional materials are coming up river this afternoon. We anticipate a Tuesday, but are also preparing for a storm on Wednesday. If the rains are currently predicted, there will be no production on Wednesday, and capping continuing into Saturday. Even with this delay, placement of the active layer later than Tuesday, December 3.	full day of production on going to be heavy as will then resume on Friday,



Thanks, Stephanie
From: Stan Kaczmarek [mailto:StanK@demaximis.com] Sent: Thursday, November 21, 2013 10:23 AM To: BudneySL@cdmsmith.com; Hoppe, Michael; Vaughn, Stephanie Cc: Gary.Foster@CH2M.com; George.Hicks@CH2M.com; John Rolfe; Willard Potter; Robert Law; Todd King Subject: RE: Carbon Analysis of Active Layer
Stephanie,
We will begin sending cores out for Total Carbon analysis.
To answer your question, the volume and weight measurement of the sand + AquaGate mixture from the conveyor belt is performed at least 2 times each day, the results are available within 5 minutes of sample collection, and if any adjustment is required, Great Lakes Dredge and Dock does that immediately.
Stan



carbon, as outlined in the memo.
One question Is the volume/weight determination performed at the end of each day (with the conveyor belt sampling being collected during the capping operation)?
Thanks,
Stephanie
From: Stan Kaczmarek < StanK@demaximis.com > Sent: Wednesday, November 20, 2013 9:43 AM To: BudneySL@cdmsmith.com; Hoppe, Michael; Vaughn, Stephanie Cc: Gary.Foster@CH2M.com; George.Hicks@CH2M.com; John Rolfe; Willard Potter; Robert Law Subject: Carbon Analysis of Active Layer
Stephanie and Mike,
Attached is a Technical Memorandum

detailing CPG's approach to carbon analysis of the active layer. CPG is prepared to implement this plan upon approval from EPA.

Stan

Stan Kaczmarek, PE

de maximis, inc.

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